Tomáš Meravý Murárik
127232

Bonus Assignment – 7

program :

#!/bin/bash

Function to anonymize IP address by performing + 100 on each octet and using modulo 255 as value of new octet.
anonymize_ip() {
      local ip="$1"
      Dividing the string by octets.
      IFS='.' read -r -a octet <<< "$ip"

      Forloop where we perform the untraceable operation (+1 would be fine too).
      for i in {0..3}; do
      octet[i]=$(((octet[i] + 100) % 255))
      done
      Return the new address in string format
      echo "${octet[0]}.${octet[1]}.${octet[2]}.${octet[3]}"
}

while IFS= read -r line; do
      # Extract the first field (ip)
      ip=$(echo "$line" | awk '{print $1}')
      My function returnes new superuntraceable address!
      We call regex on line where we swap the ip with new address and append it to file.
      echo "${line/$ip/$(anonymize_ip "$ip")}" >> "anon.log"
done < "access.log"

```
25 [mary@Windows95 os_bonus_7]$ ./script.sh
24 [mary@Windows95 os_bonus_7]$ awk '{print $1}' anon.log | sort | uniq -c | sort -nr | head
23      482 166.94.173.235
22      364 146.205.114.153
21      357 230.82.63.186
20      273 175.197.109.159
19      113 150.116.119.113
18      102 54.185.83.44
17       99 168.25.69.70
16       84 200.143.183.237
15       83 53.215.211.172
14       82 43.146.249.243
13 [mary@Windows95 os_bonus_7]$ awk '{print $1}' acess.log | sort | uniq -c | sort -nr | head
12 awk: fatal: cannot open file `acess.log' for reading: No such file or directory
11 [mary@Windows95 os_bonus_7]$ awk '{print $1}' access.log | sort | uniq -c | sort -nr | head
10      482 66.249.73.135
 9      364 46.105.14.53
 8      357 130.237.218.86
 7      273 75.97.9.59
 6      113 50.16.19.13
 5      102 209.85.238.199
 4       99 68.180.224.225
 3       84 100.43.83.137
 2       83 208.115.111.72
 1       82 198.46.149.143
 0 [mary@Windows95 os_bonus_7]$ █
 1
 2
```